



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200
Fax 613 632-5246

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name
PO042145	MCM001-VU	4	1	2% 10 Net 30	M6061T6TR1.5X1.0W125	6061-T6 Red Tube 1.5 X 1.0 X .125W : MATERIAL: 6061-T6 OR 6061-T651/T6510/T6511/T62 RECTANGULAR TUBING PER AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR PER AMS-QQ-A-200/8 OR AMS 4160 receive ft				48	1/23/2019	48		S144571	Stock	1/14/2019	\$ 7.41 / ft	0		\$355.68	McMaster-Carr Supply Co.
										Total:	48	48								\$355.68	

Plex 1/14/2019 11:02 AM Dart Belanger,Natasha



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO042145**

Supplier: MCM001-VU
McMaster-Carr Supply Co,
P.O. Box 7690
Chicago, IL 60680-7690 USA
Phone: 330 995 5500
Fax: 330 995 9600

PO No: PO042145

PO Date: 1/3/19

Due Date: 1/7/19

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Lavoie, Chantal
Phone: clavole@dartaero.com

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pynt Terms: 2% 10 Net 30

Freight Terms:

Special Comments:

E-MAILED
JAN 03 2019

Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1		8573K133	1/pk	White Delrin Acetal Resin Sheet, 2-1/2" Thick, 6" x 6"	Firmed	-	1/7/19	3 Ea	0 Ea	3 Ea	\$62.20/Ea	\$186.60
2		5227T14	6 ft	Tight Tolerance 12L14 Carbon Steel Rod, 1-1/8" Dia.	Firmed	-	1/7/19	12 ft	0 ft	12 ft	\$15.578333/ft	\$186.94
3		5845T23	10/pk	Document Protector	Firmed	-	1/7/19	10 Ea	0 Ea	10 Ea	\$0.88/Ea	\$8.80
4		M6061T6TR1.5X1.0W125	6546K999	6061-T6 Rect Tube 1.5 X 1.0 X .125W : MATERIAL: 6061-T6 OR 6061-T651/T6510/T6511/T62 RECTANGULAR TUBING PER AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR PER AMS-QQ-A-200/8 OR AMS 4160 receive ft	Firmed	-	1/7/19	48 ft	0 ft	48 ft	\$5.8333/ft	\$280.00
Line Item Note: 8 PCS OF 6 FT											Grand Total: \$662.34	



Dart Aerospace Ltd.
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Hawkesbury, ON
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Canada

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PURCHASE ORDER PO042145

Order Notes

Procurement Quality Clauses

A005 RIGHT OF ENTRY

A016 PERSONNEL QUALIFICATION

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A032 DOCUMENT SPECIAL REQUIREMENTS

A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS

A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENTS

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 1/3/19 12:43 PM dart.lavoie.chantal

200 Aurora Industrial Pkwy
Aurora OH 44202-8087
330-995-5500
cle.sales@mcmaster.com

Dart Aerospace Ltd
1270 Aberdeen St
Hawkesbury ON K6A 1K7
Canada

Purchase Order
PO042145

Order Placed By
Chantal Lavoie

McMaster-Carr Number
5974794-03

Page 1 of 1

01/11/2019

Line	Product	Ordered	Shipped
4	6546K999 Extruded 6061-T6 Aluminum Rectangle Tubing, 1" X, 1.5" X .125" Wall, 6' Length with Mtr AMS-Qq-A-225/8, or AMS 4117/4128/4115/4116 ** ** or Per, AMS-Qq-A200/8	48 Feet	48 ✓

Shipped separately from our Cleveland warehouse on 01/03

1	8573K133 White Delrin® Acetal Resin Sheet, 2-1/2" Thick, 6" x 6"	3 Each	3
2	5227T14 Tight-Tolerance 12L14 Carbon Steel Rod, Ultra-Machinable, 1-1/8" Diameter, 6 ft. Length	2 Each	2
3	5845T23 Self-Laminating Tag Protector with Hanging Strap, 4-1/2" High x 2-3/4" Wide	1 Pack	1



Hydro Extrusion USA, LLC
1550 KIRBY LANE
SPANISH FORK, UT
84660-1349

Invoice To Customer
RYERSON PROCUREMENT CORP
PO BOX 91601
LUBBOCK, TX - 79490
Ship To Customer
RYERSON PROCUREMENT CORP
2580 TECHNOLOGY DR
ELGIN, IL - 60123

Certified Test Report

Sales Order Number 1101451395
Line No. 1
Customer P/O 4500910938-1

Cert Number HYDRO2977665
Cert Creation Date 21-NOV-18
Page 1 of 2
Page Cert Print Date 21-NOV-18

Quantity Shipped	Date Shipped	Item Description	Specification
1034	21-NOV-18	Extruded Hollow Reel Tube	ASTM B221 REV 14
W/L	Item No.	1,000 H x 1,500 W x 0.125 WALL	Table 1 Chemical Composition Limits
974526	Item No.	72.5 IN I.D.	Table 2 Mechanical Property Limits
Delivery Id	Item No. Rev	FIN M-MILL	ASME SB 221 REV 17
5054938		W/J-664 F 14 CS 1.8	Table 1 Chemical Composition Limits
CustomerPart No.		6061/T6	Table 2 Mechanical Properties Limits
300038850		Marking CONTINUOUS	AMS QQ-A-20008 REV A

Applicable Specifications, Revisions and Exceptions

TAG: MCMMASTER

Melted in the USA or qualifying countries

COMPOSITION NOTE: The values for 'Others Each' and 'Others Total' have met the limits as shown on this certified inspection report. Remainder is Aluminum.

Signature And Title

Steven Tanner
Quality Manager

21-NOV-18

Hydro Extrusion USA, LLC hereby certifies that the extrusions covered in this report are within the acceptable ranges of the specification tables identified herein (excluding footnotes). Chemical composition may be based on results provided by external billet suppliers. Further information on processing, testing including ASTM B557, and inspection is available at www.hydroextrusions.com/industryspecifications. Sales are governed by the Extrusion North America Standard Terms and Conditions of Sale available at www.hydroextrusions.com/termsconditions, unless otherwise mutually agreed in writing.

Quantities per Lot / Packages

Package Number	Lot Number	Quantity	UOM	Weight
				Gross Net
G14-PKG2130950	23383155	130	PCS	531 525
G14-PKG2130951	23383155	126	PCS	515 509

Composition Limits



Hydro Extrusion USA, LLC
1550 KIRBY LANE
SPANISH FORK, UT
84660-1349

Certified Test Report

Sales Order Number 1101451395
Line No. 1
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Alloy	Si		Fe		Cu		Mn		Mg		Cr		Zn	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
6061	0.40	0.80	0.70	0.40	0.15	0.40	0.15	0.80	1.20	0.04	0.35	0.25		
Alloy	Ti		Others Each		Others Total		PCT (%)		PCT (%)		PCT (%)		PCT (%)	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
6061	0.15	0.15	0.05	0.15	0.15	0.15	0.15	0.15	0.80	1.20	0.04	0.35	0.25	

Composition Results

Heat / Cast	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others Each	Others Total
S18110403	0.75	0.33	0.22	0.07	0.89	0.05	0.05	0.02		

Mechanical Property - Test Limits

Test Type		UTS - L		TYS - L		EL 4D-Long	
UOM		KSI		KSI		PCT	
# of Tests		MIN Value		MAX Value		MIN Value	
Test Temper	Lot Number	MIN Value		MAX Value		MIN Value	
T6	23383155	45.0		45.4		8.5	
		42.4		42.6		10.5	

Notes

For U.S. Government sales: Items supplied are compliant with the Buy American Act, FAR 52.225-1, and DFARS 252.225-7001.

Melted and manufactured in the USA.

Mercury is not a normal contaminant in aluminum alloys and we do not knowingly use it in the manufacture of our goods.



DESIGN #	DRAWN BY #	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED UP	APPROVED #	DRAWING NO. M6061T6 TR	REV. A SHEET 1 OF 1
DATE 02.12.04		TITLE 6061-T6 RECTANGULAR TUBING	SCALE NTS
A	02.12.04	NEW ISSUE	

RELEASED
02.12.04 #

PURCHASE MATERIAL: 6061-T6 (OR 6061-T651/T6510/T6511/T62) RECTANGULAR TUBING
PER AMS-QQ-A-225/B (OR AMS 4117/4128/4115/4116) OR
PER AMS-QQ-A-200/B (OR AMS 4160)

PART NUMBER:

M6061T6 TR | H.H | x | B.B | W | TTT |
 HEIGHT WIDTH WALL

WHERE H.H = HEIGHT IN INCHES
B.B = WIDTH IN INCHES
TTT = WALL THICKNESS IN MIL

EG. 4" x 2" x 0.125" WALL = M6061T6 TR 4.0 x 2.0 W125

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061 T6 TR 1.5 x 1.0 x 125
 DATE: 19/01/14

PO / BATCH NO: POM2145 / S144571

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 485t
 QUANTITY INSPECTED: 485t
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.5"
 THICKNESS RECEIVED: 1.5"
 SHEET SIZE ORDERED: —
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y N	
CORROSION	Y <input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y N	AMS QQ-A-200/B
CORRECT THICKNESS	<input checked="" type="radio"/> Y N	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y N	POM2145
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>61</u> DATE: <u>19/01/14</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in